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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,705	12/29/2005	Klaus Behringer	32860-000969/US	3728
	7590 06/11/200 CKEY & PIERCE, P.L	EXAMINER		
P.O.BOX 8910			BAHTA, KIDEST	
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			2123	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/562,705	BEHRINGER, KLAUS			
Office Action Summary	Examiner	Art Unit			
	KIDEST BAHTA	2123			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earmed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29 De	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acceed applicant may not request that any objection to the original state.	vn from consideration. r election requirement. r. epted or b) □ objected to by the B				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/31/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jerome et al. (US 4,510,602) in view of Thomas et I. (US 5,623,680).

Regarding claims 1 and 21, Jerome discloses 21. (New) A control device, comprising: input means for respectively receiving an input real value (column 4, lines 61-68); output means for respectively outputting a digital output value; memory means for storing setpoint values relating to the inputs and outputs (column 5, lines 4-16); and allocation means for allocating a digital output value to one of the digital outputs as a function of a comparison of at least one of the input real values with a corresponding setpoint value, the setpoint values respectively including one of the state values 1, 0 and independence state value (column 4, lines 31-61), applicable to at least one of the setpoint values in the memory means (column 2, lines 50-53; column 6, lines 37-48; column 5, lines 31-47).

Jerome fails to disclose the allocation of a digital output value to one of the digital outputs being capable of being carried out by the allocation means independently of the at least one input real value whose allocated setpoint value includes the independence state value.

Thomas discloses the allocation of a digital output value to one of the digital outputs being capable of being carried out by the allocation means independently of the at least one input real value whose allocated setpoint value includes the independence state value (column 6, lines 24-46; column 3, lines 1-3, column 4, lines 45-50; Fig. 6).

It would have been obvious to a person of ordinary skill in the art at the time of invention was made to modify the teachings of Jerome and Thomas since a plurality of peripheral decentralized units are provided for arithmetic operations, comparisons, and counting operations without interfering with or delaying the execution of a principal program stored in the memories.

Regarding claims 2, 3 and 16-17, Thomas discloses a plurality of sets of setpoint values are respectively being storable for an output value or set of output values in the memory and a plurality of sets of setpoint values are respectively being storable for an output value or set of output values in the memory (column 3, lines 54-column 4, line 11).

Regarding claims 4 and 5, Jerome discloses a plurality of set of setpoint values are respectively being storable for an output value or set of output values in the memory (column5, lines 28-58).

Regarding claims 10, 16-20, Jerome discloses a plurality of sets of setpoint values are respectively provided for an output value or set of output values (column 4, lines 32-61).

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Regarding claims 6-7, and 12-13,18, Thomas discloses the safety instrument switches to the safety state if the input real values deviate from the corresponding setpoint values for more than a predetermined time; the sets of setpoint values are checked with a check sum at fixed time intervals (column 7, lines 32-35; column 6, lines 24-46).

Allowable Subject Matter

3. Claims 8-9 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed Kidest Bahta whose telephone number is 571-272-3737. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Rodriguez can be reached on 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application information Retrieval IPAIRI system. Status information for published applications may be obtained from either Private PMR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAG system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-fee).

/Kidest Bahta/

Primary Examiner, Art Unit 2123